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2012

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[Link to publication](#)

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University of Bath

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Metadata for Data Citation and Discovery

Alex Ball

DCC/UKOLN, University of Bath

6 July 2012



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Funded by **JISC**

Outline

Citation, discovery and reuse

Data citation

- Motivation

- Metadata

Data discovery

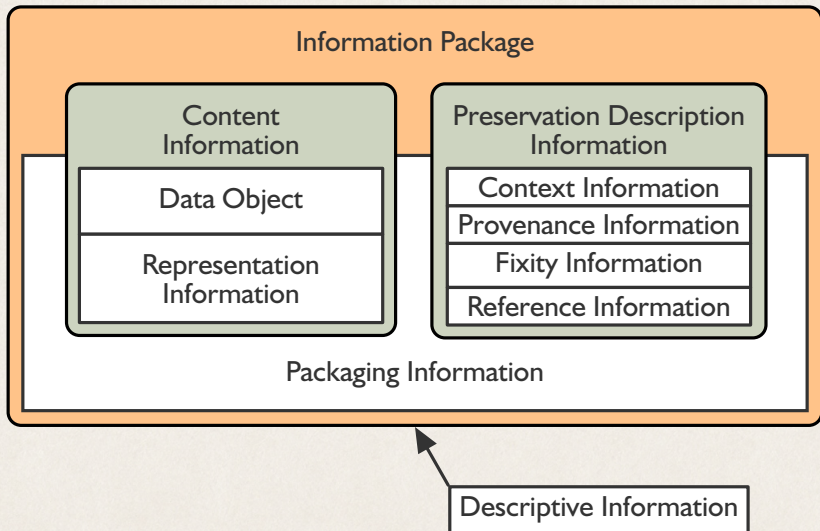
- Motivation

- Metadata

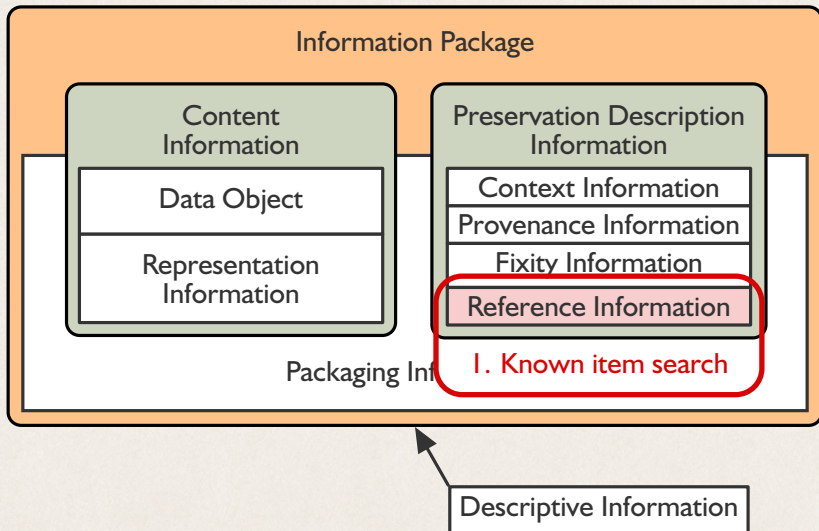
Issues and challenges

Recommendations

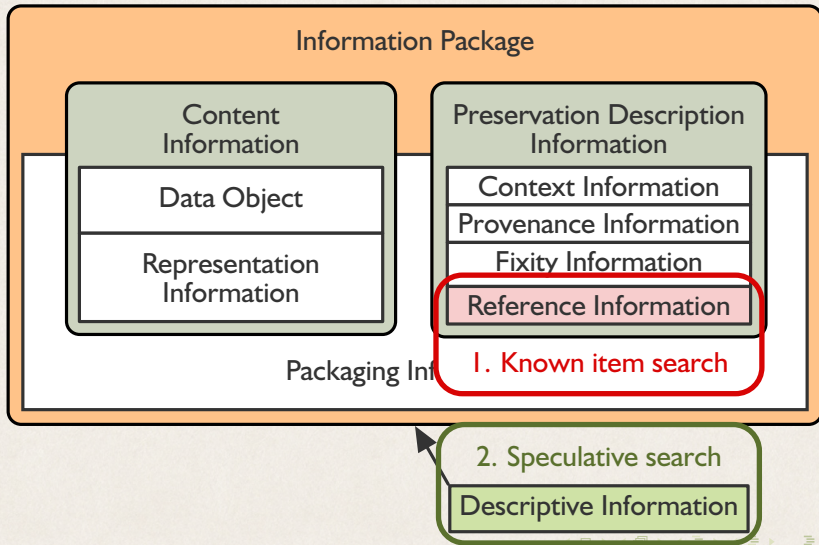
Layers of metadata



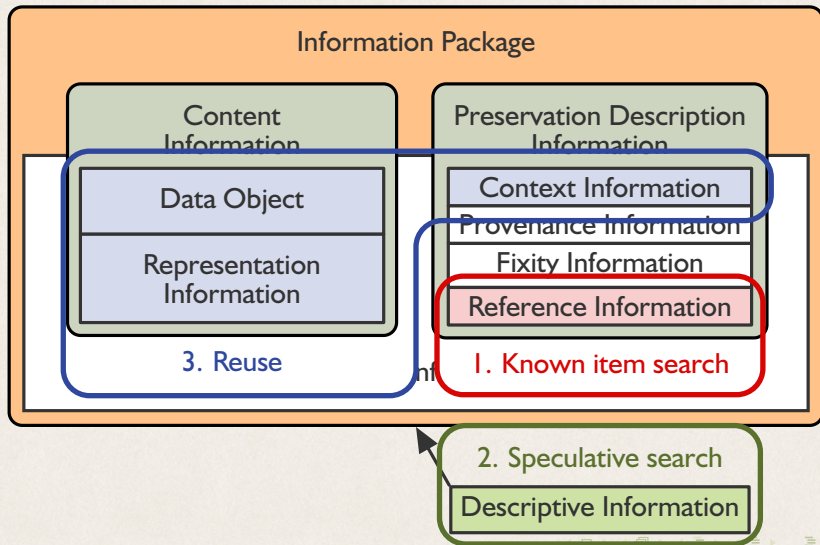
Layers of metadata



Layers of metadata



Layers of metadata



What's great about journal papers?

- ▶ Awareness raising
- ▶ Protection from plagiarism
- ▶ Verification of results
- ▶ Basis for future research
- ▶ Reward models
- ▶ Permanent access

What's great about journal papers?

- ▶ Awareness raising
- ▶ Protection from plagiarism
- ▶ ~~Verification of results~~
- ▶ ~~Basis for future research~~
- ▶ Reward models
- ▶ Permanent access

Data citations provide. . .

- ▶ Visibility for data
- ▶ Protection from plagiarism
- ▶ Possibility for verification of results
- ▶ Data on which to base future research
- ▶ Possibility for reward models
- ▶ Access

Citation styles

- ▶ Altman, M. & King, G. (2007). A proposed standard for the scholarly citation of quantitative data. *D-Lib Magazine*, 13(3/4). doi:10.1045/march2007-altman
- ▶ Lawrence, B. N., Jones, C. M., Matthews, B. M. & Pepler, S. J. (2008, February 1). *Data publication* (Claddier Project Report No. 3). BADC. Retrieved from <http://purl.org/oai/oai:epubs.cclrc.ac.uk:work/43641>
- ▶ Green, T. (2010, February). *We need publishing standards for datasets and data tables*. OECD Publishing. doi:10.1787/787355886123
- ▶ Starr, J. & Gastl, A. (2011). isCitedBy: A metadata scheme for DataCite. *D-Lib Magazine*, 17(1/2). doi:10.1045/january2011-starr

Citation styles

Four data citation styles: which elements do they use?

Altman and King (2007): Dataverse

Lawrence et al. (2008): BADC

Green (2010): OECD

Starr and Gastl (2011): DataCite

Citation styles

Author

Altman and King (2007): Dataverse

► Sidney Verba.

NORC [Producer];

Lawrence et al. (2008): BADC

► Iwi, A. and B. N. Lawrence

Green (2010): OECD

► OECD

Starr and Gastl (2011): DataCite

► Irino, T; Tada, R

Citation styles

Publication date

Altman and King (2007): Dataverse

- ▶ Sidney Verba. 1998.
NORC [Producer];

Lawrence et al. (2008): BADC

- ▶ Iwi, A. and B. N. Lawrence (2004).

Green (2010): OECD

- ▶ OECD (2009),
(Accessed on 14 September 2009)

Starr and Gastl (2011): DataCite

- ▶ Irino, T; Tada, R (2009):

Citation styles

Title

Altman and King (2007): Dataverse

- ▶ Sidney Verba. 1998. "U.S. and Russian Social and Political Participation Data," NORC [Producer];

Lawrence et al. (2008): BADC

- ▶ Iwi, A. and B. N. Lawrence (2004). A 500 year control run of HadCM3.

Green (2010): OECD

- ▶ OECD (2009), "Key short-term indicators", Main Economic Indicators (Accessed on 14 September 2009)

Starr and Gastl (2011): DataCite

- ▶ Irino, T; Tada, R (2009): Chemical and mineral compositions of sediments from ODP Site 127-797.

Citation styles

Version

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- ▶ Sidney Verba. 1998. "U.S. and Russian Social and Political Participation Data," NORC [Producer];

Lawrence et al. (2008): BADC

- ▶ Iwi, A. and B. N. Lawrence (2004). A 500 year control run of HadCM3.
Version 1.

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- ▶ OECD (2009), "Key short-term indicators", Main Economic Indicators
(Accessed on 14 September 2009)

Starr and Gastl (2011): DataCite

- ▶ Irino, T; Tada, R (2009): Chemical and mineral compositions of sediments from ODP Site 127-797. V2.

Citation styles

Feature

Altman and King (2007): Dataverse

- ▶ Sidney Verba. 1998. "U.S. and Russian Social and Political Participation Data," NORC [Producer];

Lawrence et al. (2008): BADC

- ▶ Iwi, A. and B. N. Lawrence (2004). A 500 year control run of HadCM3. [GridSeries, <http://ndg.nerc.ac.uk/csml2/GridSeries>] Version 1.

Green (2010): OECD

- ▶ OECD (2009), "Key short-term indicators", Main Economic Indicators (Accessed on 14 September 2009)

Starr and Gastl (2011): DataCite

- ▶ Irino, T; Tada, R (2009): Chemical and mineral compositions of sediments from ODP Site 127-797. V2.

Citation styles

Resource type

Altman and King (2007): Dataverse

- ▶ Sidney Verba. 1998. "U.S. and Russian Social and Political Participation Data," NORC [Producer]; data set [Type (DC)]

Lawrence et al. (2008): BADC

- ▶ Iwi, A. and B. N. Lawrence (2004). A 500 year control run of HadCM3. [GridSeries, <http://ndg.nerc.ac.uk/csml2/GridSeries>] Version I.

Green (2010): OECD

- ▶ OECD (2009), "Key short-term indicators", Main Economic Indicators (database). (Accessed on 14 September 2009)

Starr and Gastl (2011): DataCite

- ▶ Irino, T; Tada, R (2009): Chemical and mineral compositions of sediments from ODP Site 127-797. V2. Dataset.

Citation styles

Publisher

Altman and King (2007): Dataverse

- ▶ Sidney Verba. 1998. "U.S. and Russian Social and Political Participation Data," NORC [Producer]; data set [Type (DC)] **ICPSR [Distributor]**.

Lawrence et al. (2008): BADC

- ▶ Iwi, A. and B. N. Lawrence (2004). A 500 year control run of HadCM3. [GridSeries, <http://ndg.nerc.ac.uk/csm12/GridSeries>] Version 1. **BADC**.

Green (2010): OECD

- ▶ OECD (2009), "Key short-term indicators", Main Economic Indicators (database). (Accessed on 14 September 2009)

Starr and Gastl (2011): DataCite

- ▶ Irino, T; Tada, R (2009): Chemical and mineral compositions of sediments from ODP Site 127-797. V2. **Geological Institute, University of Tokyo**. Dataset.

Citation styles

Identifier

Altman and King (2007): Dataverse

- ▶ Sidney Verba. 1998. "U.S. and Russian Social and Political Participation Data," [hdl:1902.4/00754](#)
NORC [Producer]; data set [Type (DC)] ICPSR [Distributor].

Lawrence et al. (2008): BADC

- ▶ Iwi, A. and B. N. Lawrence (2004). A 500 year control run of HadCM3. [GridSeries,
<http://ndg.nerc.ac.uk/csm12/GridSeries>] Version 1. BADC. [urn:badc.nerc.ac.uk_coapec500yr](#)

Green (2010): OECD

- ▶ OECD (2009), "Key short-term indicators", Main Economic Indicators (database). [doi: 10.1787/data-00039-en](#)
(Accessed on 14 September 2009)

Starr and Gastl (2011): DataCite

- ▶ Irino, T; Tada, R (2009): Chemical and mineral compositions of sediments from ODP Site 127-797. V2. Geological Institute, University of Tokyo. Dataset. [doi:10.1594/PANGAEA.726855](#).

Citation styles

Location

Altman and King (2007): Dataverse

- ▶ Sidney Verba. 1998. "U.S. and Russian Social and Political Participation Data," [hdl:1902.4/00754](https://doi.org/10.1902.4/00754)
NORC [Producer]; data set [Type (DC)] ICPSR [Distributor].

Lawrence et al. (2008): BADC

- ▶ Iwi, A. and B. N. Lawrence (2004). A 500 year control run of HadCM3. [GridSeries, <http://ndg.nerc.ac.uk/csml2/GridSeries>] Version 1. BADC. urn:badc.nerc.ac.uk_coapec500yr [Available from <http://badc.nerc.ac.uk/data/coapec500yr>].

Green (2010): OECD

- ▶ OECD (2009), "Key short-term indicators", Main Economic Indicators (database). doi: 10.1787/data-00039-en <http://dx.doi.org/10.1787/data-00039-en> (Accessed on 14 September 2009)

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- ▶ Irino, T; Tada, R (2009): Chemical and mineral compositions of sediments from ODP Site 127-797. V2. Geological Institute, University of Tokyo. Dataset. doi:10.1594/PANGAEA.726855. <http://dx.doi.org/10.1594/PANGAEA.726855>

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Unique Numeric Fingerprint

Altman and King (2007): Dataverse

- Sidney Verba. 1998. "U.S. and Russian Social and Political Participation Data," hdl:1902.4/00754 UNF:3:ZNQRI14053UZq389x0Bfg?== NORC [Producer]; data set [Type (DC)] ICPSR [Distributor].

Lawrence et al. (2008): BADC

- Iwi, A. and B. N. Lawrence (2004). A 500 year control run of HadCM3. [GridSeries, <http://ndg.nerc.ac.uk/csm12/GridSeries>] Version 1. BADC. urn:badc.nerc.ac.uk_coapec500yr [Available from <http://badc.nerc.ac.uk/data/coapec500yr>].

Green (2010): OECD

- OECD (2009), "Key short-term indicators", Main Economic Indicators (database). doi: 10.1787/data-00039-en <http://dx.doi.org/10.1787/data-00039-en> (Accessed on 14 September 2009)

Starr and Gastl (2011): DataCite

- Irino, T; Tada, R (2009): Chemical and mineral compositions of sediments from ODP Site 127-797. V2. Geological Institute, University of Tokyo. Dataset. doi:10.1594/PANGAEA.726855. <http://dx.doi.org/10.1594/PANGAEA.726855>

Key citation elements

- ▶ Author
- ▶ Publication date
- ▶ Title
- ▶ Location

Key citation elements

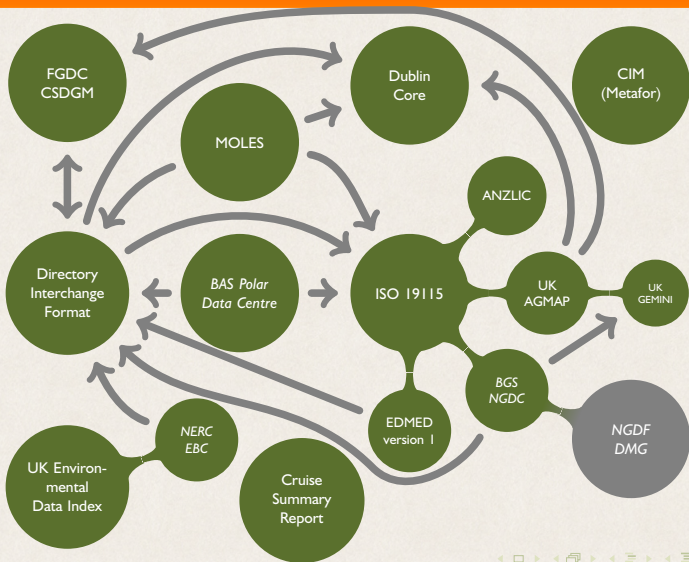
- ▶ Author
- ▶ Publication date
- ▶ Title
- ▶ Location (= identifier)

Motivation for a data discovery service

Needed to realise some benefits of data reuse:

- ▶ Maximum return on funder investment
- ▶ Reduced duplication of effort
- ▶ Reduced costs of data collection
- ▶ Broader scope of possible research

Geospatial/Environmental Data



Earth System Grid

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Search

[Search](#)[Clear Search](#)

Type

[Dataset](#) (5180)
[Simulation](#)
[Metadata](#) (3470)
[Software](#) (87)

Project

[CCSM](#) (2752)
[CMIP5](#) (1617)
[GeoMIP](#) (8)
[NARCCAP](#) (116)
[NCL](#) (47)
[...Show More](#)

Institute

[NCAR](#) (1461)
[NSF-DOE-](#)
[NCAR](#) (356)

Model

[CCSM 3](#) (1807)
[CCSM4](#) (1486)
[CESM1-BGC](#) (180)
[CESM1-CAM5](#) (83)
[CESM1-](#)
[FASTCHEM](#) (36)
[...Show More](#)

Experiment

[1pctCO2](#) (52)
[B04.10](#) (3)
[B04.16](#) (4)
[B04.19](#) (4)
[B04.23](#) (4)
[...Show More](#)

Frequency

[3-Hourly](#) (203)
[6-Hourly](#) (10)
[Daily](#) (82)
[Fixed \(time-](#)
[independent\)](#) (136)
[Monthly](#) (1368)
[...Show More](#)

Product

[forcing](#) (4)
[hist](#) (326)
[other](#) (1)
[output1](#) (1372)
[output2](#) (245)
[...Show More](#)

Realm

[Aerosol](#) (199)
[Atmosphere](#) (484)
[Atmospheric](#)
[chemistry](#) (111)
[Climate](#) (137)
[Earth system](#) (565)
[...Show More](#)

CF Variable

[10m wind speed](#) (5)
[2m air](#)
[temperature](#) (6)
[2m reference](#)
[specific humidity](#) (6)
[2m reference](#)
[temperature](#) (6)
[2m relative](#)
[humidity](#) (6)
[...Show More](#)

Variable Name

[ADVS](#) (15)
[ADVS_ISOP](#) (8)
[ADVS_SUBM](#) (8)
[ADVT](#) (15)
[ADVT_ISOP](#) (8)
[...Show More](#)

Ensemble

[r0i0p0](#) (136)
[r10i1p1](#) (27)
[r10i2p1](#) (54)
[r11i1p1](#) (12)
[r12i1p1](#) (12)
[...Show More](#)

Physical Domain

[Atmosphere](#) (794)
[Earth system](#) (138)
[Ice](#) (481)
[Land](#) (652)
[Ocean](#) (763)

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About the DCS

Search for data

Results

You are searching for...

documents containing
geoscientific information (in
topic category)
**443 results returned in 0.63
seconds.**

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record with:](#)

Download

The metadata is available for
downloading in the following
formats:

[NERC format \(CSV\)](#)

[NERC format \(XML version 0.7\)](#)

This metadata complies with
INSPIRE and GEMINI 2 standards.

Details

 [Provide feedback](#)

Title: Chemistry of iron in freshwaters of Northwest England

Abstract: Chemical composition of freshwater samples from sites in Northern England. Measurements of pH, dissolved major ions (Na, Mg, K, Ca, Cl, NO₃, SO₄), dissolved organic carbon (DOC), dissolved Al, Fe(II) and total Fe, and measurements of Al, Fe(II) and total Fe on samples following dialysis. A view service identifying sample locations is also available

Temporal coverage: These data span the period from [Thursday 25 September 2003](#) to [Thursday 26 February 2004](#) inclusive.

Resource locator:

information

[Further Information](#) - Preprint of peer-reviewed paper describing the results. Contains details of all analytical methods used.

miscellaneous

[Map View Service](#) - This resource has a related map view service

[Documents](#) - Documents available to assist with re-use of this dataset.

[Data download](#) - Download this data

Conditions for access and use constraints: CEH must be acknowledged in all resultant publications

Responsible party - Distributor

Centre for Ecology & Hydrology

Individual name: Steve Lofts

Address: [Maclean Building, Benson Lane, Crowmarsh Gifford, Wallingford, OX10 8BB, United Kingdom](#)

Email: [enquiries\(at\)ceh\(dot\)ac\(dot\)uk](mailto:enquiries(at)ceh(dot)ac(dot)uk)

Geographic extent



The metadata covers the area West - East from -4.1158° to -1.4383° and North - South from 54.7783° to 53.6226°. [Search](#) for all metadata within this area.

 [KML](#)

RESEARCH DATA
AUSTRALIA

SEARCH

Advanced Search

Home Australian Ocean Data Network Collection RAN XBT Temperature Profile D...

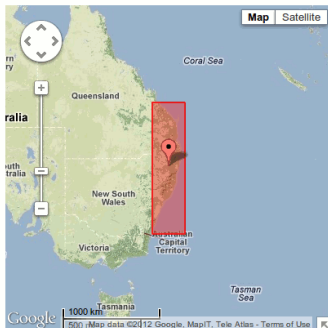
+ Share | LinkedIn Facebook Twitter YouTube RSS | Print

RAN XBT Temperature Profile Data - HMAS PERTH

ProjectID: 98004PE From: 1998-01-27 To: 1998-03-12

This dataset contains temperature profile data recorded using expendable BaThermograph probes (XBT) and a digital recording system. The dataset contains 50 observations obtained during RAN cruise 98004PE (HMAS PERTH). Source file: 98004PE.xml

Coverage:



Time Period:
From 1998 To 1998

Subjects:

ANZSRC

STATISTICS

MATHEMATICAL PHYSICS

NUMERICAL AND

COMPUTATIONAL MATHEMATICS

EARTH SCIENCES

OTHER ENVIRONMENT

Keywords

Oceans | Ocean Temperature |

Water Temperature

Access

Rights

Rights statement

The citation to be used in publications which use this data should follow the format: RAN HYDROGRAPHY AND METOC BRANCH, <http://www.metoc.gov.au> accessed at dd-MMM-YYYY

Rights statement

Attribution 2.5 Australia

Rights statement

While every effort has been made to ensure the accuracy of

Connections

Researchers

- Data Management Officer

ANDS Suggested Links

10628 Collections with matching subjects

Identifiers:

Local: AODN:f311f2bb-3937-499e-8dc8-8f3d502b9709

<http://services.ands.org.au/home/orca/rda/>

Common data discovery metadata elements

Identification

- ▶ Dataset Name (15)
- ▶ Dataset Version (4)
- ▶ Dataset Date (13)
- ▶ Dataset Identifier (12)
- ▶ Metadata Scheme Name (7)
- ▶ Metadata Scheme Version (5)
- ▶ Metadata Record Date (10)
- ▶ Metadata Record Identifier (3)

Responsibility

- ▶ Project/Study/Series Name (9)
- ▶ Project/Study/Series Status (4)
- ▶ Rights/Restrictions (14)
- ▶ Agent (15)
- ▶ Agent Contact Details (11)

Common data discovery metadata elements

Archiving

- ▶ Location (15)
- ▶ File Format(s) (10)
- ▶ Storage Medium (6)
- ▶ Size (7)
- ▶ Data Quality Information (5)
- ▶ Data Preview (4)
- ▶ Dataset Language (7)
- ▶ Dataset Status (8)

Spatiotemporal Coverage

- ▶ Spatial Extent (12)
- ▶ Spatial Resolution (7)
- ▶ Temporal Extent (15)
- ▶ Temporal Resolution (5)

Common data discovery metadata elements

Topical Coverage and Derivation

- ▶ Dataset Type (12)
- ▶ Subject/Keywords (13)
- ▶ Abstract/Summary/Description (14)
- ▶ Parameters Used (6)
- ▶ Methodology/Instrumentation (8)
- ▶ Processing Steps (6)
- ▶ Related Datasets (11)
- ▶ Derived Publications (11)

Source: Ball, A. (2009). *Scientific Data Application Profile Scoping Study Report*. University of Bath, UKOLN.

<http://www.ukoln.ac.uk/projects/sdapss/>

Most common data discovery metadata elements

- ▶ Dataset Name (15)
- ▶ Dataset Date (13)
- ▶ Dataset Identifier (12)
- ▶ Metadata Record Date (10)
- ▶ Rights/Restrictions (14)
- ▶ Agent (15)
- ▶ Agent Contact Details (11)
- ▶ Location (15)
- ▶ File Format(s) (10)
- ▶ Spatial Extent (12)
- ▶ Temporal Extent (15)
- ▶ Dataset Type (12)
- ▶ Subject/Keywords (13)
- ▶ Abstract/Summary/Description (14)
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- ▶ **Dataset Name** (15)
- ▶ **Dataset Date** (13)
- ▶ **Dataset Identifier** (12)
- ▶ Metadata Record Date (10)
- ▶ Rights/Restrictions (14)
- ▶ **Agent** (15)
- ▶ Agent Contact Details (11)
- ▶ **Location** (15)
- ▶ File Format(s) (10)
- ▶ Spatial Extent (12)
- ▶ Temporal Extent (15)
- ▶ Dataset Type (12)
- ▶ Subject/Keywords (13)
- ▶ Abstract/Summary/Description (14)
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Most common data discovery metadata elements

- ▶ **Dataset Name** (15)
- ▶ Dataset Date (13)
- ▶ Dataset Identifier (12)
- ▶ Metadata Record Date (10)
- ▶ Rights/Restrictions (14)
- ▶ **Agent** (15)
- ▶ Agent Contact Details (11)
- ▶ **Location** (15)
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- ▶ Spatial Extent (12)
- ▶ **Temporal Extent** (15)
- ▶ Dataset Type (12)
- ▶ Subject/Keywords (13)
- ▶ Abstract/Summary/Description (14)
- ▶ Related Datasets (11)
- ▶ Derived Publications (11)

Most common data discovery metadata elements

- ▶ **Dataset Name** (15)
- ▶ **Dataset Date** (13)
- ▶ **Dataset Identifier** (12)
- ▶ **Metadata Record Date** (10)
- ▶ **Rights/Restrictions** (14)
- ▶ **Agent**¹ (15)
- ▶ **Agent Contact Details** (11)
- ▶ **Location**² (15)
- ▶ **File Format(s)** (10)
- ▶ **Spatial Extent** (12)
- ▶ **Temporal Extent** (15)
- ▶ **Dataset Type** (12)
- ▶ **Subject/Keywords** (13)
- ▶ **Abstract/Summary/Description** (14)
- ▶ **Related Datasets** (11)
- ▶ **Derived Publications** (11)

1. DataCite uses Creator, Publisher, Contributor
2. DataCite holds this separately
3. DataCite also has Dataset Version (4), Dataset Language (7), Size (7)

Attributing datasets to many contributors

giardine.etal2011sda-suppl.xls - LibreOffice Calc

File Edit View Insert Format Tools Data Window Help

Calibri 11 B I U

GS Researcher ID

<http://dx.doi.org/10.1038/ng.785>

	A	B	C	D	E	F	G	H	I	J	K
	#dbID	HGV5 name	dbSNP ss#	dbSNP rs#	OMIM	Swiss-Prot	Researcher ID	PMID	Common name		
5	ALOX5AP_00001	NM_001629.2:c.323+154T>C	-	rs4468448	-	-	Hb Var (A-2391-2010)	17918249	-		
6	ALOX5AP_00002	NM_001629.2:c.323+326T>C	-	rs4769058	-	-	Hb Var (A-2391-2010)	17918249	-		
8	ALOX5AP_00003	NM_001629.2:c.324-369A>G	-	rs9508834	-	-	Hb Var (A-2391-2010)	17918249	-		
9	AQP9_00001	NM_020980.3:c.835A>G	-	rs1867380	-	-	Hb Var (A-2391-2010)	17918249	-		
10	ARG2_00002	NM_001172.3:c.860-11T>C	-	rs10483802	-	-	Hb Var (A-2391-2010)	18275000	-		
11	ARG2_00001	NM_001172.3:c.860-426C>A	-	rs10483801	-	-	Hb Var (A-2391-2010)	18275000	-		
12	ASS1_00001	NM_000050.4:c.495+1473C>T	-	rs590086	-	-	Hb Var (A-2391-2010)	17918249	-		
13	ASS1_00002	NM_000050.4:c.597+18A>G	-	rs652313	-	-	Hb Var (A-2391-2010)	17918249	-		
14	ASS1_00003	NM_000050.4:c.838+2190A>G	-	rs12555797	-	-	Hb Var (A-2391-2010)	17918249	-		
15	ASS1_00004	NM_000050.4:c.839-88A>T	-	rs543048	-	-	Hb Var (A-2391-2010)	17918249	-		
16	ATRX_00086	NM_000489.3:c.20+1G>A	-	-	-	-	Hb Var (A-2391-2010)	12858175	-		
17	ATRX_00003	NM_000489.3:c.109C>T	-	-	-	-	Hb Var (A-2391-2010)	10632111	-		
18	ATRX_00004	NM_000489.3:c.187G>T	-	-	-	-	Hb Var (A-2391-2010)	18409179	-		
19	ATRX_00005	NM_000489.3:c.236C>G	-	-	-	-	Hb Var (A-2391-2010)	12858175	-		
20	ATRX_00087	NM_000489.3:c.242+2T>C	-	-	-	-	Hb Var (A-2391-2010)	16266892	-		
21	ATRX_00088	NM_000489.3:c.370G>T	-	-	-	-	Hb Var (A-2391-2010)	16376512	-		
22	ATRX_00089	NM_000489.3:c.390_391insA	-	-	-	-	Hb Var (A-2391-2010)	18409179	-		
23	ATRX_00090	NM_000489.3:c.413_414delAA	-	-	-	-	Hb Var (A-2391-2010)	11449489	-		
24	ATRX_00006	NM_000489.3:c.521G>A	-	-	-	-	Hb Var (A-2391-2010)	19055664	-		
25	ATRX_00007	NM_000489.3:c.524G>A	-	-	-	-	Hb Var (A-2391-2010)	10204841	-		
26	ATRX_00091	NM_000489.3:c.528_529insCAA	-	-	-	-	Hb Var (A-2391-2010)	9326931	-		
27	ATRX_00093	NM_000489.3:c.536A>G	-	-	-	-	Hb Var (A-2391-2010)	8968741	-		
28	ATRX_00008	NM_000489.3:c.565C>G	-	-	-	-	Hb Var (A-2391-2010)	16813605	-		
29	ATRX_00009	NM_000489.3:c.568C>G	-	-	-	-	Hb Var (A-2391-2010)	9326931	-		
30	ATRX_00010	NM_000489.3:c.568C>T	-	-	-	-	Hb Var (A-2391-2010)	11449489	-		
31	ATRX_00011	NM_000489.3:c.569C>T	-	-	-	-	Hb Var (A-2391-2010)	16763962	-		
32	ATRX_00012	NM_000489.3:c.576G>C	-	-	-	-	Hb Var (A-2391-2010)	9326931	-		
33	ATRX_00013	NM_000489.3:c.576G>C	-	-	-	-	Hb Var (A-2391-2010)	14592816	-		

Variant Submission Information Microattribution Information Phenotype Information Variant Frequency Information

Sheet 2 / 4 PageStyle_Microattribution Information STD Sum=0 103%

Dynamic datasets

Two types:

- ▶ Revised datasets
- ▶ Expanding datasets

Dynamic datasets

Three strategies:




1. Differentiate versions by access date rather than ID

A 

2. Take time slices

A 
B 
C 

3. Take snapshots

A 
B 
C 

Recommendations: metadata for citation

► Author

- Record roles, identifiers and contact details as well as names.

► Publication date

► Title

- It helps to avoid confusion if this is different from the article title.

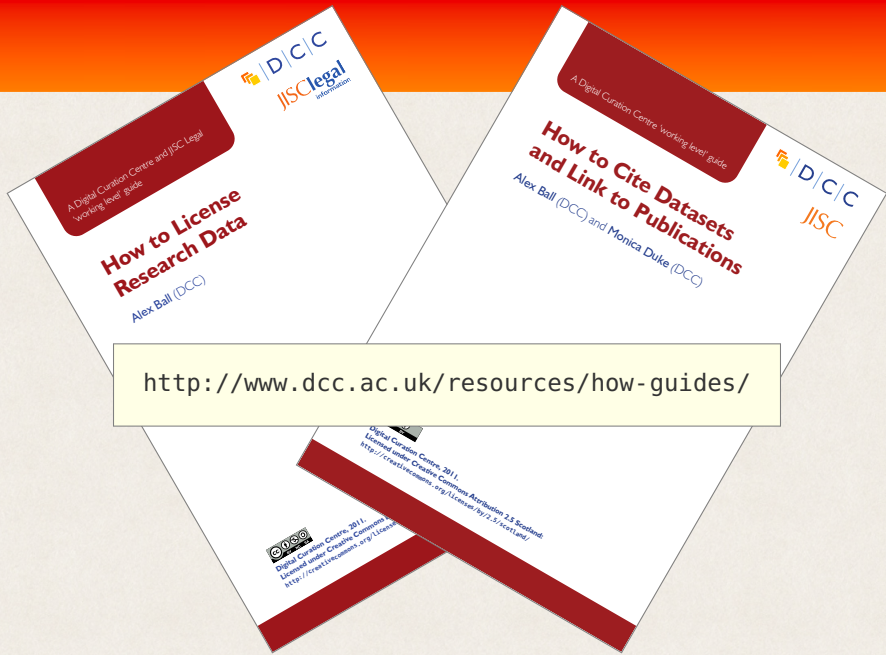
► Location/Identifier

- Express identifiers in location (http) form if possible.
- Use DOIs for 'published' data and Handles, ARKs, PURLs, etc. for other data.
- Use different DOIs for different versions.
- Location given should be a catalogue record/landing page for the data.
- Giving the **Publisher** or **Host Archive** as well provides some recourse if the link breaks.

Recommendations: metadata for discovery

In addition to the citation metadata, these should also be recorded where they apply:

- ▶ **Contributors**
- ▶ **Abstract/Summary/Description**
- ▶ **Subject/Keywords**
- ▶ **Rights/Restrictions**
- ▶ **Spatial Coverage**
- ▶ **Temporal Coverage**
- ▶ **Derived Publications**
- ▶ **Related Datasets**
- ▶ **Resource Type**
- ▶ **File Format(s)**
- ▶ **Important Dates**
Creation, Submission, Acceptance, Use By...
- ▶ **Language***
- ▶ **Version***
- ▶ **Size***
- ▶ **Metadata Record Date**



<http://www.dcc.ac.uk/resources/how-guides/>

Thank you for your attention

DCC Website: <http://www.dcc.ac.uk/>

Alex Ball: <http://www.ukoln.ac.uk/ukoln/staff/a.ball/>

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“Infrastructure, Intelligence, Innovation: driving the Data Science agenda”

14–16 January 2013, Amsterdam

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